



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 130569

**TO:** Ilia Ouspenski  
**Location:** 3d74 / 3c70  
**Tuesday, August 24, 2004**  
**Art Unit:** 1644  
**Phone:** 272-2920  
**Serial Number:** 09 / 888324

**From:** Jan Delaval  
**Location:** Biotech-Chem Library  
Rem 1A51  
**Phone:** 272-2504  
**[jan.delaval@uspto.gov](mailto:jan.delaval@uspto.gov)**

### Search Notes

# SEARCH REQUEST FORM

## Scientific and Technical Information Center

Requester's Full Name: \_\_\_\_\_ Examiner #: \_\_\_\_\_ Date: \_\_\_\_\_  
Art Unit: \_\_\_\_\_ Phone Number 30 \_\_\_\_\_ Serial Number: \_\_\_\_\_  
Mail Box and Bldg/Room Location: \_\_\_\_\_ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

STAFF USE ONLY		Type of Search	Vendors and cost where applicable
Searcher:		NA Sequence (#)	STN _____
Searcher Phone #:	22504	AA Sequence (#)	Dialog _____
Searcher Location:		Structure (#)	Questel/Orbit _____
Date Searcher Picked Up:	8/24	Bibliographic	Dr. Link _____
Date Completed:	8/24	Litigation	Lexis/Nexis _____
Searcher Prep & Review Time:		Fulltext	Sequence Systems <input checked="" type="checkbox"/>
Clerical Prep Time:	60	Patent Family	WWW/Internet _____
Online Time:	10	Other	Other (specify) _____

130569

**Delaval, Jan**

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**From:** Ouspenski, Ilia  
**Sent:** Tuesday, August 24, 2004 10:00 AM  
**To:** Delaval, Jan  
**Subject:** sequence search for 09/888,324

Dear Jan,

Please provide polypeptide seach for SEQ ID NO:66 for 09888324.

Thanks,

Ilia

ILIA OUSPENSKI, Ph.D.  
Examiner  
Art Unit 1644  
Phone:571-272-2920  
REM 3D74  
Mailstop 3c70

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Gencore version 5.1.6

OM protein - protein search, using sw model

Run on: August 24, 2004, 10:18:46 ; Search time 116 Seconds  
 (without alignments)  
 824.155 Million cell updates/sec

Title: US-09-888-324-66

Perfect score: 1613

Sequence: MGHTRMKWGSLLPDKRPLCILWLS.....ETVGVTERLSPVPIYIGSAQSSG 303

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 31551820 residues

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

Database : SPTREMBL\_25:\*\*

1: sp\_archae:\*

2: sp\_bacteria:\*

3: sp\_fungi:\*

4: sp\_human:\*

5: sp\_invertebrate:\*

6: sp\_mammal:\*

7: sp\_mhc:\*

8: sp\_organelle:\*

9: sp\_phage:\*

10: sp\_plant:\*

11: sp\_reddent:\*

12: sp\_virus:\*

13: sp\_vertebrate:\*

14: sp\_unclassified:\*

15: sp\_rvirus:\*

16: sp\_bacteriopl:\*

17: sp\_archeap:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

**SUMMARIES**

Result No.	Score	Query	% Match	Length	DB ID	Description
1	1262.5	78 3	296	6	C06405	O46405 bos taurus
2	962	59 6	296	6	Q8WmZ2	Q8WmZ2 sus scrofa
3	94.5	58 6	297	6	Q8Be99	Q8Be99 sus scrofa
4	93.0.5	57.7	304	6	Q9TQX1	Q9TQX1 canis familiaris
5	91.9	57.0	292	6	Q02758	Q02758 felis silvestris
6	91.2	56 5	292	6	Q9GMZ2	Q9GMZ2 felis silvestris
7	902.5	56.0	288	6	Q9TT70	Q9TT70 sus scrofa
8	864	53.6	230	6	Q8N213	Q8N213 sus scrofa
9	862	53 4	229	6	Q9T771	Q9T771 sus scrofa
10	830	51.5	288	6	Q9T771	Q9T771 macaca nemestrina
11	811	50.3	288	6	Q28499	Q28499 macaca mulatta
12	802.5	49.8	235	6	Q9tq8	Q9tq8 canis familiaris
13	800	49.6	288	6	Q8BdN6	Q8BdN6 cercocebus
14	800	49.6	289	6	Q8B347	Q8B347 cercocebus
15	792.5	49.1	235	6	Q9nOTo	Q9nOTo canis familiaris
16	691.5	42.9	294	11	Q8BbH6	Q8BbH6 mesocricetus auratus

**ALIGNMENTS**

RESULT 1

ID	AC	PRELIMINARY;	PRT;	296 AA.
Q66405	Q66405;			
	DT	01-JUN-1998 (TREMBREL_06, Created)		
	DT	01-OCT-2003 (TREMBREL_06, Last sequence update)		
	DB	CD80 antigen precursor (Fragment).		
	OS	Bos taurus (Bovine).		
	OC	Eukaryota; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Detartoedactyla; Ruminantia; Pecora; Bovidae; Bovinae; Bos.		
	OX	NCBI_TaxID:9913;		
	RN	[1]		
	RP	SEQUENCE FROM N.A.		
	RX	MEDLINE=99115507; PubMed=9914337;		
	RA	Parsons K.R., Howard C.		
	RT	"Cloning of cattle CD80."		
	RL	Immunogenetics 49:231-234 (1999). march 1999		
	DR	EMBL: Y0990; CD471001.1; -.		
	DR	HSRP; P33651; IDR9.		
	DR	InterPro; IPR003599; Ig-like.		
	DR	InterPro; IPR00710; Ig-like.		
	DR	PFam; PF0047; Ig_2.		
	DR	SMART; SM00409; Ig_1.		
	DR	PROSITE; PS50835; IG_LIKE; 2.		
	KW	Signal.		
	FT	SIGNAL 1 25 POTENTIAL.		
	FT	NON_TER 296 AA; 33618 MW; 7ADB1FB5F532EFS CRC64;		
	SO	SEQUENCE		

Query Match Best Local Similarity 81.8%; Score 1262.5; DB 6; Length 295; Matches 242; Conservative 19; Mismatches 32; Indels 3; Gaps 2;

Qy 1 MGHTRMKWGSLLPDKRPLCILWLS.....ETVGVTERLSPVPIYIGSAQSSG 303

Dy 1 MGHTRMKWGSLLPDKRPLCILWLS.....ETVGVTERLSPVPIYIGSAQSSG 303

QY	1. LTSRLRYWQDKSNTVAILPGRKVQWPEYKRTITDMNDNPRIVITALRPSDSGYTCVI	120	RESULT 3
ID	Q9BE99	PRELIMINARY;	PRT; 297 AA.
AC	Q9BE99;		
DT	01-JUN-2001 (TREMBrel. 17, Created)		
DT	01-JUN-2001 (TREMBrel. 17, Last sequence update)		
DT	01-OCT-2003 (TREMBrel. 25, Last annotation update)		
DE	CD80 protein precursor.		
GN	CD80(B7-1).		
OS	Sus scrofa (Pig).		
OC	Bukaryota; Metzoa; Chordata; Craniata; Vertebrates; Euteleostomi;		
OC	Mammalia; Butcheria; Cetartiodactyla; Suiua; Suidae; Sus.		
RN	[1] Sus scrofa (Pig).		
RP	SEQUENCE FROM N.A.		
RA	Rada M., Amae S., Sano N., Ishii T., Hoshi M., Sasaki H., Nio M., Hayashi Y., Ohi R.;		
RA	"cloning and sequencing of cDNAs for porcine B7-1 (CD80) and soluble isoforms," Submitted (OCT-2000) to the EMBL/GenBank/DBJ databases.		
DR	EMBL: AB019760; BAA40952.1; -.		
DR	HSSP: P31681; IDR9.		
DR	InterPro: IPR003599; Ig.		
DR	InterPro: IPR007110; Ig-like.		
DR	PFAM: PF00047; ig; 2.		
DR	SMART: SM0009; Ig; 1.		
DR	FROSTIE; PSS085; Ig-LIKE; 2.		
KW	Signal.		
FT	POTENTIAL.		
FT	CHAIN 1 297 AA; MW; 23109711EA63BF23 CRC64;		
RP	SEQUENCE		
FT	297 AA; 33438 MW; 23109711EA63BF23 CRC64;		
Query Match	Best Local Similarity 58.6%; Score 944.5; DB 6; Length 297; Matches 192; Conservative 38; Mismatches 63; Indels 13; Gaps 6		
QY	1 MGHTMKGSILPPKRCPIWLSQLVLVTLGLFVPGSGITPKSVTRKVEETVMSCDYNTSEE 60		
Db	-1 NGHTLKGNGTLPK----LFGLVPGVLFPGCAGV--QVTKVKEIAVSDYNTSEE 53		
QY	61 LTSRLRYWQDKSNTVAILPGRKVQWPEYKRTITDMNDNPRIVITALRPSDSGYTCVI	120	
Db	54 LTRVRLYWQDKDENMLAVMSGKVKVWPKTYENRTFDVNNICIVIALRUSDNGTYTCVI	113	
QY	121 QRPVLKGAYKLEHLASVRMIRADPFPPTINDLGNSPNRRLLCSTSGGFRPPHYLWLE 180		
Db	114 QRE-RGSYKLEHLTSVKVNAKDPVPSITALGNSPNRRLLCSTSGGFRPPHYLWLE 172		
QY	181 NGEELNATNTVSOPGTELYMISSELDENTVNNSIIVCLIKIGLVSQIFPKSK - PK 238		
Db	173 NGEELNATNTMLSOPDTELYMISSELDENVTGNHSFMCUVKGULTVSOTFNWOKSAK 232		
QY	239 QEPFDQ-LPPWVIIIPVSGALVLTAVVLYCAGRVWRKTRRFBETVGERLSPYLG 297		
Db	233 ETSSANQFLLFTVIISASACGI--AIIILYRURCSAAPRQRERRRNMSMEMERISPIYG 290		
QY	298 SAQSG 303		
Db	291 SVEGPG 296		
RESULT 4			
ID	Q9TQX1	PRELIMINARY;	PRT; 304 AA.
AC	Q9TQX1;		
DT	01-MAY-2000 (TREMBrel. 13, Created)		
DT	01-MAY-2000 (TREMBrel. 13, Last sequence update)		
DT	01-OCT-2003 (TREMBrel. 25, Last annotation update)		
DE	B7-1 protein precursor.		
GN	CD80.		
QY	181 NGEELNATNTVSOPGTELYMISSELDENTVNNSIIVCLIKIGLVSQIFPKSK - PK 238		
Db	173 NGEELNATNTMLSOPDTELYMISSELDENVTGNHSFMCUVKGULTVSOTFNWOKSAK 232		
QY	241 QEPFDQ-LPPWVIIIPVSGALVLTAVVLYCAGRVWRKTRRFBETVGERLSPYLG 297		
Db	233 ETSSANQFLLFTVIISASACGI--AIIILYRURCSAAPRQRERRRNMSMEMERISPIYG 290		
QY	298 SAQSG 303		
Db	291 SVEGPG 296		
RESULT 4			
ID	Q9TQX1	PRELIMINARY;	PRT; 304 AA.
AC	Q9TQX1;		
DT	01-MAY-2000 (TREMBrel. 13, Created)		
DT	01-MAY-2000 (TREMBrel. 13, Last sequence update)		
DT	01-OCT-2003 (TREMBrel. 25, Last annotation update)		
DE	B7-1 protein precursor.		
GN	CD80.		